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without exception larger than the heliometer ones. And I should like to state that this is probably largely due to a systematic error in the heliometer method of measurement which makes the distances come out too small, and which Dr. GILL and myself have only recently traced to its source. When this is taken into account, as I propose to do shortly in a revision of the Yale *Pleiades* work, the accuracy of the photographic results will be still more apparent. It speaks not a little, meanwhile, for their reliability that they have not failed to show up this small but important inconsistency in the heliometer measures.

YALE UNIVERSITY OBSERVATORY,
May, 1892.

OBSERVATIONS OF THE SUN IN 1891 AND 1892.

BY MISS ROSE O'HALLORAN.*

With commendable zeal Miss ROSE O'HALLORAN of San Francisco has made observations of the sun spots on every favorable day since November, 1891. In the period of 152 days between November 1, 1891 and March 31, 1892, only 23 days were wholly cloudy; and during this time 70 maps of the solar surface were constructed. Forty-one distinct groups of spots were observed, 19 in the northern hemisphere and 22 in the southern. Bridges connecting different members of the group were very numerous and distributed in the two hemispheres in the same proportion as the spots. Isolated spots were very few. Only five spots were observed to be within 10° of the solar equator. A rapidly developing group of spots near the sun's western limb was observed and sketched on January 19. The return of this group was looked for on the eastern limb on February 3 and 4, and was first seen the afternoon of the 4th. This group was identical with the Great February Sun Spot Group; so that Miss O'HALLORAN was one of its very earliest observers, and possibly the earliest. It was followed closely until unfavorable weather prevented further observations. The observations were made with a 4⅛-inch BRASHEAR refractor, with powers of 50, 100 and 200.

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* Abstract by W. W. CAMPBELL of a paper presented to the Society June 11, 1892, by Miss O'HALLORAN.